

SEQUENCE LISTING

<110> SYODA, MAKOTO
SUGANO, YASUSHI
KUBOTA, HIDETOSHI

<120> NOVEL ENZYME WITH DECOLORIZING ACTIVITY AND METHOD FOR DECOLORIZING DYES
BY USING THE SAME

<130> 213129US0PCT

<140> US 09/926,084

<141> 2001-08-27

<150> JP99/11-050562

<151> 1999-02-26

<160> 16

<170> PatentIn version 3.1

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Thr Tyr Val Pro Glu Arg
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Cys Pro Phe Gly Ala His Val Arg
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Ile Pro Tyr Gly Pro Glu Thr Ser Asp Ala Glu Leu Ala Ser Gly Val
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Thr Ala Gln Asp Arg
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Ser Gly Ala Pro Ile Asp Leu Ala Pro Thr Ala Asp Asp Pro Ala Leu
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Gly Ala Asp Pro Gln
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Pro Tyr Gly Pro Glu Thr
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Pro Thr Ala Asp Asp Pro
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Met Asp Leu Ser Leu Phe Val Val Ser Val Ala Val Leu Val Gly Ser
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Ser Ser His Val Asn Ala Ala Lys Leu Gly Ala Arg Gln Thr Arg Thr
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Thr Pro Leu Leu Thr Asn Phe Pro Gly Gln Ala Pro Leu Pro Thr Leu
 35 40 45

Thr	Gln	His	Thr	Thr	Glu	Ser	Gly	Ala	Asn	Asp	Thr	Ile	Leu	Pro	Leu	
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Asn	Asn	Ile	Gln	Gly	Asp	Ile	Leu	Val	Gly	Met	Lys	Lys	Gln	Lys	Glu	
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Arg	Phe	Val	Phe	Phe	Gln	Val	Asn	Asp	Ala	Thr	Ser	Phe	Lys	Thr	Ala	
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Leu	Lys	Thr	Tyr	Val	Pro	Gln	Arg	Ile	Thr	Ser	Ala	Ala	Ile	Leu	Ile	
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Ser	Asp	Pro	Ser	Gln	Gln	Pro	Leu	Ala	Phe	Val	Asn	Leu	Gly	Phe	Ser	
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Gln	Phe	Pro	Asp	Gly	Gln	Phe	Ala	Asp	Ala	Ala	Asn	Leu	Gly	Asp	Asp	
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Leu	Ser	Gln	Trp	Val	Ala	Pro	Phe	Thr	Gly	Thr	Thr	Ile	His	Gly	Val	
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Phe	Leu	Ile	Gly	Ser	Asp	Gln	Asp	Asp	Phe	Leu	Asp	Gln	Phe	Thr	Asp	
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Asp	Ile	Ser	Ser	Thr	Phe	Gly	Ser	Ser	Ile	Thr	Gln	Val	Gln	Ala	Leu	
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Phe	Leu	Asp	Gly	Ile	Ser	Gln	Pro	Ser	Val	Thr	Gly	Trp	Glu	Thr	Thr	
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Arg	Asp	Gly	Asp	Thr	Gly	Thr	Arg	Pro	Ser	Trp	Ala	Leu	Asp	Gly	Ser	
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285

Ala Ala

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Phe Thr Gly Thr Thr Ile His Gly Val Phe
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Gly Pro Val Leu Val Arg Leu Ala Trp His Thr Ser Gly Arg Glu Val
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Val Ala Leu Met Gly Ala His Ala Leu Gly
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Ala Gly Leu Phe Ile Arg Met Ala Trp His Gly Ala Gly Glu Thr Val
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Ala Leu Ile Ala Gly Gly His Thr Leu Gly
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Val Arg Lys Ile Leu Arg Ile Val Phe His Asp Ala Ile Asp Glu Val
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Val Asp Leu Leu Ala Ala His Ser Leu Ala
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Val Ser Leu Leu Ala Ser His Thr Val Ala
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Val Trp Met Leu Ser Ala His Ser Val Ala
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Val Ala Leu Ser Gly Ala His Thr Ile Gly
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Ala Ala Ser Ile Ile Arg Leu His Phe His Asp Cys Phe Ser Asp Leu
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Val Ala Leu Ser Gly Gly His Thr Phe Gly
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